

ENTERED



OIPE

RAW SEQUENCE LISTING DATE: 08/08/2002
PATENT APPLICATION: US/10/083,424 TIME: 10:42:27

Input Set : A:\5294-000006 sequence listing.txt
Output Set: N:\CRF3\08082002\J083424.raw

4 <110> APPLICANT: Avicore Biotechnology Institute Inc.
6 <120> TITLE OF INVENTION: Recombinant ScFv Antibodies Specific to Eimeria spp.

Responsible

7 for Coccidiosis
9 <130> FILE REFERENCE: Avicore-USA-1
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/083,424
C--> 11 <141> CURRENT FILING DATE: 2002-02-19
11 <150> PRIOR APPLICATION NUMBER: KR 2001-52934
12 <151> PRIOR FILING DATE: 2001-08-30
14 <160> NUMBER OF SEQ ID NOS: 40
16 <170> SOFTWARE: KopatentIn 1.71
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 21
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable
25 region
28 <400> SEQUENCE: 1
29 ggaggagacg atgacttcgg t 21
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 21
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
39 region
42 <400> SEQUENCE: 2
43 gccgtgacgt tggacgagtc c 21
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 21
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
53 region
56 <400> SEQUENCE: 3
57 taggacggtc agggttgtcc c 21
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 21
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable

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67 region
70 <400> SEQUENCE: 4
71 gcgcgtgactc agccgtccctc g 21
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 51
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
81 region
84 <400> SEQUENCE: 5 51
85 ggccggagggtg gctctggcg tggcggatcg gccgtgacgt tggacgagtc c
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 21
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
95 region
98 <400> SEQUENCE: 6
99 ggaggagacg atgacttcgg t 21
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 21
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable
109 region
112 <400> SEQUENCE: 7
113 gcgcgtgactc agccgtccctc g 21
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 51
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
123 region
126 <400> SEQUENCE: 8 51
127 agagccacct ccgcctgaac cgcctccacc taggacggtc agggttgcc c
130 <210> SEQ ID NO: 9
131 <211> LENGTH: 21
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
137 region
140 <400> SEQUENCE: 9
141 gccgtgacgt tggacgagtc c 21
144 <210> SEQ ID NO: 10

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145 <211> LENGTH: 51
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable
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154 <400> SEQUENCE: 10
155 agagccacct ccgcctgaac cgccctcacc ggaggagacg atgacttcgg t
158 <210> SEQ ID NO: 11
159 <211> LENGTH: 51
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable
165 region 51
168 <400> SEQUENCE: 11
169 ggcggagggt gctctggcg tggcgatcg gcgctgactc agccgtcctc g
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 21
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
179 region 21
182 <400> SEQUENCE: 12
183 taggacggtc agggttgtcc c
186 <210> SEQ ID NO: 13
187 <211> LENGTH: 55
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
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199 <210> SEQ ID NO: 14
200 <211> LENGTH: 39
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: forward primer for PCR amplification of scFv
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212 <210> SEQ ID NO: 15
213 <211> LENGTH: 55
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
221 <400> SEQUENCE: 15

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222 gtcctcgcaa ctgcggccca gccgggcat ggccgccgtg acgttggacg agtcc 55
 225 <210> SEQ ID NO: 16
 226 <211> LENGTH: 39
 227 <212> TYPE: DNA
 228 <213> ORGANISM: Artificial Sequence
 230 <220> FEATURE:
 231 <223> OTHER INFORMATION: forward primer for PCR amplification of scFv
 234 <400> SEQUENCE: 16
 235 ggcacccttt gcggccgcta ggacggtcag ggttgtccc 39
 238 <210> SEQ ID NO: 17
 239 <211> LENGTH: 369
 240 <212> TYPE: DNA
 241 <213> ORGANISM: chicken hybridoma cell line 2-1
 243 <220> FEATURE:
 244 <221> NAME/KEY: CDS
 245 <222> LOCATION: (1)..(369)
 247 <400> SEQUENCE: 17
 248 gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gga gga 48
 249 Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly
 250 1 5 10 15
 252 gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc acc ttc agc agc cat 96
 253 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His
 254 20 25 30
 256 ggc atg atg tgg gtg cga cag acg ccc ggc aag ggg ctg gag tgg gtc 144
 257 Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val
 258 35 40 45
 260 gcg ggt att agc aac act ggt act tac acg tac tac gcg ccg gcg gtg 192
 261 Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Ala Pro Ala Val
 262 50 55 60
 264 aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc aca gtg agg 240
 265 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
 266 65 70 75 80
 268 ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tac tac tgc 288
 269 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
 270 85 90 95
 272 gcc aaa ggt ggt gct tat tgt gct ggt tgt ggt ggt gac atc gac gca 336
 273 Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala
 274 100 105 110
 276 tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc 369
 277 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 278 115 120
 281 <210> SEQ ID NO: 18
 282 <211> LENGTH: 123
 283 <212> TYPE: PRT
 284 <213> ORGANISM: chicken hybridoma cell line 2-1
 286 <400> SEQUENCE: 18
 287 Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly
 288 1 5 10 15
 290 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His

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291	20	25	30	
293	Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val			
294	35	40	45	
296	Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Ala Pro Ala Val			
297	50	55	60	
299	Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg			
300	65	70	75	80
302	Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys			
303	85	90	95	
305	Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala			
306	100	105	110	
308	Trp Gly His Gly Thr Glu Val Ile Val Ser Ser			
309	115	120		
312	<210> SEQ ID NO: 19			
313	<211> LENGTH: 372			
314	<212> TYPE: DNA			
315	<213> ORGANISM: chicken hybridoma cell line 5D11			
317	<220> FEATURE:			
318	<221> NAME/KEY: CDS			
319	<222> LOCATION: (1)..(372)			
321	<400> SEQUENCE: 19			
322	gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gga gga	48		
323	Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly			
324	1 5 10 15			
326	gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc gac ttc agc agt tac	96		
327	Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Asp Phe Ser Ser Tyr			
328	20 25 30			
330	gac atg att tgg gtg cga cag gcg ccc ggc aag ggg ctg gaa tac gtc	144		
331	Asp Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val			
332	35 40 45			
334	gct ggt att aga agt gat ggt agt agc ata tac tac ggg gcg gcg gtg	192		
335	Ala Gly Ile Arg Ser Asp Gly Ser Ser Ile Tyr Tyr Gly Ala Ala Val			
336	50 55 60			
338	aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc act ctg agg	240		
339	Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Leu Arg			
340	65 70 75 80			
342	ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tat tac tgc	288		
343	Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys			
344	85 90 95			
346	gcc aaa agt tct tat ggt agt tgg aga ggt tct act ggt gac atc gac	336		
347	Ala Lys Ser Ser Tyr Gly Ser Trp Arg Gly Ser Thr Gly Asp Ile Asp			
348	100 105 110			
350	gca tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc	372		
351	Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser			
352	115 120			
355	<210> SEQ ID NO: 20			
356	<211> LENGTH: 124			
357	<212> TYPE: PRT			
358	<213> ORGANISM: chicken hybridoma cell line 5D11			

VERIFICATION SUMMARY

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L:11 M: 270 C: Current Application Number differs, Replaced Current Application No
L:11 M: 271 C: Current Filing Date differs, Replaced Current Filing Date